

# Regional Oil, Propane, Gasoline & BioFuel Overview

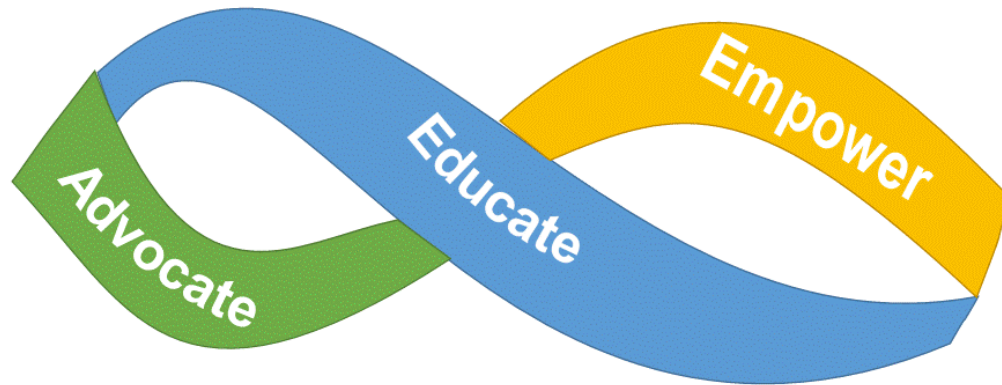
Connecticut Energy Marketers Association



# Connecticut Energy Marketers Association



**Our mission is to Advocate and Implement Favorable Legislation, Membership Empowerment, and Consumer Education.**



# Infrastructure Overview

- ▶ Terminals
- ▶ Pipelines
- ▶ Production Facilities
- ▶ Rail, Barge, Over the Road



# The Industry in Connecticut

## Petroleum Products Stored & Transported

- ▶ 600 Home heating oil dealers selling 595,244 gallons Bioheat®/low sulfur heating oil
- ▶ 1,400 Gasoline dealers selling 1.2 billion gallons of gas
- ▶ 75 Propane dealers selling 47,460 gallons of propane

The petroleum industry employs 13,000 Connecticut residents

# Terminals



Motiva Terminal, 400 Waterfront St. New Haven

*Gateway, Gulf, Magellan, Motiva, Citgo, Buckeye, Sprague, Global, Inland, HOP - oil, gasoline, diesel...*

- ▶ New Haven
- ▶ Bridgeport
- ▶ New London
- ▶ Groton
- ▶ Rocky Hill
- ▶ Portland
- ▶ Wethersfield
- ▶ East Hartford
- ▶ Windsor Locks
- ▶ Stamford

# NORTHEAST HOME HEATING OIL RESERVE (NEHHOR)

- ▶ The Northeast Home Heating Oil Reserve (NEHHOR) is a one million barrel supply of ultra low sulfur distillate (diesel) that provides protection for homes and businesses in the northeastern United States should a disruption in supplies occur.

-300,000 barrels at the Buckeye terminal in Groton, Connecticut.

-300,000 barrels at the Buckeye terminal in Port Reading, New Jersey.

-400,000 barrels at the Global terminal in Revere, Massachusetts.

Release of the Reserve is at the President's discretion. The President may make the requisite finding of a "severe energy supply interruption" for the sale of product under two conditions:

*"if there is "a dislocation in the heating oil market," or*

*a circumstance exists (other than the defined dislocation) that is a regional supply shortage of significant scope and duration and the Reserve's release would significantly reduce its adverse impact."*

# Spill, Prevention, Control, Countermeasure - SPCC



- ▶ AST's with a capacity threshold of more than 1,320 gallons
- ▶ Requires Overfill Prevention systems & alarms to be installed in accordance with industry standards and applicable fire codes.
- ▶ Loading racks and aboveground piping must be equipped with secondary containment.
- ▶ Secondary containment systems or their equivalents for bulk tanks, loading & unloading areas and piping systems must be “sufficiently impervious” - PE determines what constitutes “sufficiently impervious”.
- ▶ Tank, piping & valves must undergo integrity testing at regular intervals & when repaired. “The PE may use STI SP001 “Standard for the Inspection of Aboveground Storage (ie. hydrostatic testing, radiographic testing, ultrasonic testing, acoustic emissions testing)



# Buckeye Pipeline



 Layer information and map data

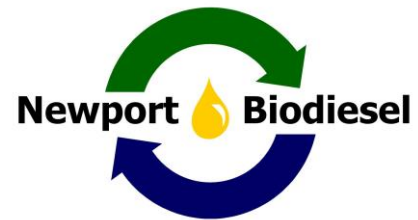
Send map questions, comments and suggestions to: [mapping@eia.gov](mailto:mapping@eia.gov)



# New England Production

► Biodiesel

Kolmar/American Green Fuel - Connecticut, Newport Biodiesel - Rhode Island, White Mountain - New Hampshire



# Biodiesel

- ▶ Biodiesel comes from plant oils such as soybean and palm oil, animal fats, or recycled restaurant oils. It is a 100% renewable fuel and contains nearly 0% sulfur content. Biodiesel must be designated as B100 and meet all of the current requirements of ASTM D-6751 to be certified as Biodiesel.
- ▶ ASTM D6751 is the approved standard for B100 for blending up to B20, in effect since 2001
- ▶ D975 - Covers petrodiesel and blends up to 5% biodiesel maximum for on/off road engines since 2008
- ▶ D7467 - Covers blends containing 6% to 20% biodiesel for on/off road engines since 2008
- ▶ D396 - Covers heating oil and blends up to 5% biodiesel for boilers and home heating oil units since 2008
- ▶ New B6-B20 grade in D396: Passed Dec 2014



# Propane

► New England gets propane from -

10% Canada by rail

2% from imports

20% off the pipeline in Selkirk NY and the rest by rail from various rail terminals throughout the region.

3 - CT Plainville, Southington and Plymouth

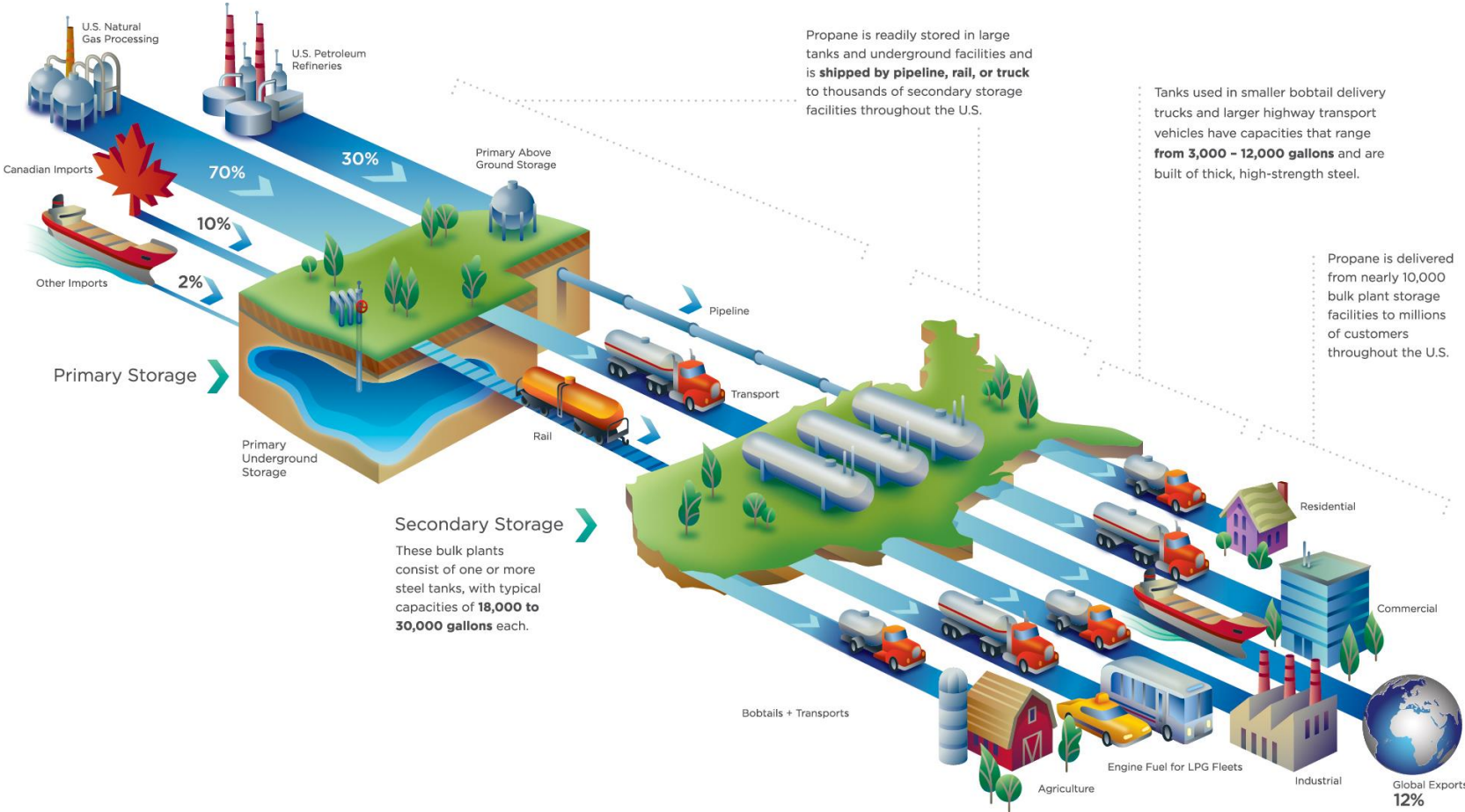
1 - RI Davisville

3 - MA Westfield, West Springfield, and Westborough

Several in the northern states of VT, NH and Maine.

Only 1 marine terminal left right now, Sea-3 in Newington, NH

# Propane Delivery



Propane is readily stored in large tanks and underground facilities and is shipped by pipeline, rail, or truck to thousands of secondary storage facilities throughout the U.S.

Tanks used in smaller bobtail delivery trucks and larger highway transport vehicles have capacities that range from **3,000 - 12,000 gallons** and are built of thick, high-strength steel.

Propane is delivered from nearly 10,000 bulk plant storage facilities to millions of customers throughout the U.S.

# Summary

- ▶ Privately developed storage system
- ▶ Flexible distribution (rail, road, barge, pipeline)
- ▶ State and federal regulated (storage/SPCC, CDL Hazmat, spill reporting, etc.)
- ▶ Regional energy policy challenges ie. natural gas expansion and conversion

Questions?

Thank you!

